

Clinical Procedures (CP)

CP Users (MD*1.0*62)

Deployment, Installation, Back-Out, and Rollback Guide



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Revision History

Date	Version	Description	Author
4/24/2018	1.1	Added IOC Test Sites	Bill Sherman
9/2018	1.0	Initial Release	HPS Clinical Sustainment Team

Artifact Rationale

This document describes the Deployment, Installation, Back-out, and Rollback Plan for new products going into the VA Enterprise. The plan includes information about system support, issue tracking, escalation processes, and roles and responsibilities involved in all those activities. Its purpose is to provide clients, stakeholders, and support personnel with a smooth transition to the new product or software, and should be structured appropriately, to reflect these procedures at a single or at multiple locations.

Per the Veteran-focused Integrated Process (VIP) Guide, the Deployment, Installation, Back-out, and Rollback Plan is required to be completed prior to Critical Decision Point #2 (CD #2), with the expectation that it will be updated throughout the lifecycle of the project for each build, as needed.

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1. Introduction

This document describes how to deploy and install the CP User v1.0.62.0, as well as how to back-out the product and rollback to a previous version or data set. This document is a companion to the project charter and management plan for this effort. In cases where a non-developed COTS product is being installed, the vendor provided User and Installation Guide may be used, but the Back-Out Recovery strategy still needs to be included in this document.

1.1.Purpose

The purpose of this plan is to provide a single, common document that describes how, when, where, and to whom the CP User v1.0.62.0 will be deployed and installed, as well as how it is to be backed out and rolled back, if necessary. The plan also identifies resources, communications plan, and rollout schedule. Specific instructions for installation, back-out, and rollback are included in this document.

1.2.Dependencies

The CP User v1.0.62.0 project is for installation on a fully patched VistA system. There is also a Graphical User Interface (GUI) component that should be running on a Windows system.

1.3.Constraints

v1.0.62.0 and the associated M patch (if applicable) are expected to be installed on existing VistA platforms. The hardware may reside at local or regional data centers. v1.0.62.0 utilizes existing, nationally released security controls to control access.

2. Roles and Responsibilities

No one single entity oversees decision making for deployment, installation, back out and rollback of v1.0.62.0. The Release Agent and Application Coordinators under the Veterans In Process will approve deployment and install from an OIT perspective. If an issue with the software arises, then the facility CIO and other site leadership will meet along with input from Patient Safety and Health Product Support to initiate a back out and rollback decision of the software along with the IT Operations and Services personnel. The following table provides CP User v1.0.62.0 project information.

Table 1: Roles and Responsibilities

Team	Phase / Role	Tasks
IT Operations and Services personnel	Deployment	Plan and schedule deployment (including orchestration with vendors)
IT Operations and Services personnel	Deployment	Determine and document the roles and responsibilities of those involved in the deployment.
Site personnel.	Deployment	Test for operational readiness
IT Operations and Services personnel The IT support will need to include person(s) to install the KIDS build as well as the personnel to deploy the GUI – which may be done on each machine, a shared network and/or the Citrix access gateway	Deployment	Execute deployment

Team	Phase / Role	Tasks
IT Operations and Services personnel. The IT support will need to include person(s) to install the KIDS build as well as the personnel to deploy the GUI – which may be done on each machine, a shared network and/or the Citrix access gateway	Installation	Plan and schedule installation
N/A – will work under the VistA ATO and security protocols.	Installation	Ensure authority to operate and that certificate authority security documentation is in place
N/A – no equipment is being added.	Installation	Validate through facility POC to ensure that IT equipment has been accepted using asset inventory processes
N/A – no new functionality is being introduced.	Installations	Coordinate training
Facility CIO, IT Operations, and Services personnel	Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out)
Hardware and System support – no changes. Software support will be the HPS Clinical Sustainment team.	Post Deployment	Hardware, Software and System Support

3. Deployment

The deployment is planned as a standard VistA National Patch Module patch rollout. Once approval has been given to nationally release, the patch MD*1.0*62 will be released from the National Patch Module. At this point, it will be available for installation and deployment at all sites.

Scheduling of test/mirror installs, testing and deployment to production will be at the site's discretion. It is anticipated there will be a 30-day compliance period.

3.1. Timeline

There is no timeline specifically for deployment. This is considered a maintenance release and installation will be at the site's discretion, within the constraints of the compliance period for the release.

3.2. Site Readiness Assessment

This section discusses the locations that will receive the v1.0.62.0 deployment.

3.2.1. Deployment Topology (Targeted Architecture)

CP User Documentation v1.0.62.0 will be deployed to each VistA instance. That will include local sites as well as regional data processing centers. The executable will also be deployed to the Citrix Access Gateway.

3.2.2. Site Information (Locations, Deployment Recipients)

The initial deployment will be to IOC sites for verification of functionality. Once that testing is completed and approval is given for national release, CP User v1.0.62.0 (MD*1.0*62) will be deployed to all VistA systems.

The Production (IOC) testing sites are:

- Wilmington VA Medical Center, DE
- Edward Hines Jr. VA Hospital (Hines, IL)

3.2.3.Site Preparation

There is no special preparation required for CP User v1.0.62.0. A fully patched VistA system is the only requirement.

3.3.Resources

N/A

3.3.1.Facility Specifics

N/A

3.3.2.Hardware

N/A

3.3.3.Software

N/A

3.3.4.Communications

Service Delivery and Engineering (SDE) Field Implementation Services will be sending out an Action item and National Change Order prior to the release of CP User v1.0.62.0 advising them of the upcoming release.

CP User v1.0.62.0 will be deployed using the standard method of patch release from the National Patch Module rather than a phased deployment. When patch MD*1.0*62 is released, the National Patch Module will send a notification to all the personnel who have subscribed to those notifications.

3.3.4.1. Deployment/Installation/Back-Out Checklist

The deployment and installation will be performed by site support personnel once it is nationally released.

4. Installation

4.1.Pre-installation and System Requirements

CP User v1.0.62.0 assumes a fully-patched VistA system.

4.2.Platform Installation and Preparation

[VistA] This patch should be loaded during non-peak hours to minimize disruption to users. Installation will take less than 5 minutes. Users may remain on the system.

[GUI] The time to deploy the GUI will depend on which method the site utilizes for running the executable (network share, Citrix, individual workstation installs, etc.)

4.3.Download and Extract Files

CP User v1.0.62.0 is being released as a PackMan Message distributed through the National Patch Module combined with a .ZIP file containing the GUI file(s).

The preferred method is to retrieve files from download.vista.med.va.gov.

This transmits the files from the first available server. Sites may also elect to retrieve files directly from a specific server.

Sites may retrieve the software and/or documentation directly using Secure File Transfer Protocol (SFTP) from the ANONYMOUS.SOFTWARE directory at the following

Table 2: OI Field Offices

Location	Site
Hines	fo-hines.med.va.gov
Salt Lake City	fo-slc.med.va.gov

Documentation can also be found on the VA Software Documentation Library at:

<http://www4.va.gov/vdl/>

Table 3: Files to be Downloaded

File Name	File Contents	Download Format
MD_1_62.ZIP	CP User v1.0.62.0 executable and fresh database	Binary

4.4.Database Creation

N/A

4.5.Installation Scripts

N/A

4.6.Cron Scripts

N/A

4.7.Access Requirements and Skills Needed for the Installation

Installation of CP User v1.0.62.0 requires the following to install:

- Programmer access to VistA instance and ability to install KIDS build.
- Citrix Access Gateway (CAG) installs – access/ability to upload to the CAG.
- Network Share installs – access/ability to upload executable to the network share location.
- Individual work-station installs – access/ability to push executable to required work stations.

4.8.Installation Procedure

4.8.1.MD*1.0*62 VistA Installation

1. Choose the PackMan message containing this patch and invoke the INSTALL/CHECK MESSAGE PackMan option.
2. Select Kernel Installation & Distribution System Option: Installation
 - 1 Load a Distribution
 - 2 Verify Checksums in Transport Global

- 3 Print Transport Global
- 4 Compare Transport Global to Current System
- 5 Backup a Transport Global
- 6 Install Package(s)
- Restart Install of Package(s)
- Unload a Distribution

3. From this menu, must use the [Backup a Transport Global] option to create a back out message.
4. Also from this menu, you may elect to use the following options:
 - Compare Transport Global to Current System
 - Verify Checksums in Transport Global
5. Use the Install Package(s) options and select the package MD*1.0*62
6. When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', respond NO.
7. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', respond NO.

4.8.2. CP User v1.0.62.0 GUI Installation

The ZIP files contain the CP User GUI executable and associated files. Download the ZIP file and extract all the files.

4.8.2.1. CPC User documentation GUI Methods of Installation

The following methods of installation of CPC User are available. Sites' choice of which method(s) to use will depend upon IT Operations and Services personnel/VISN policies, Local Area Network (LAN) performance or other local circumstances. User requirements, physical location and methods of connection to the VA network may warrant more than one of the options below to be used.

- Network (shared) installation:

This method is typically the simplest to maintain, providing the local network infrastructure is robust enough to handle the additional traffic caused by users running the GUI executable (CPUser.exe) across the LAN.

The GUI executable (CPUser.exe), help file (CPUser.chm) files are copied to a network shared location. Users are provided with a desktop shortcut to run CPUser.exe directly from the network shared drive. The necessary command line parameters (Vista server address or name and RPC Broker Port number) are entered in the "Target" field of the shortcut properties

At the time of a CP User version update the copy of CPUser.exe and the help file are replaced, on the network share, with the new version.

Any users requiring access to another site's CP User system can be given an alternate desktop shortcut with command line parameters appropriate to the intended target Vista system.

If a user requires access to an older or newer version of CP User (e.g. for testing purposes) a different version of CPUser.exe can be placed in a separate network location and the user be supplied with an appropriate alternate shortcut (different Target path and different Vista server command line parameters).

- Citrix installation:

The GUI executable (CPUser.exe) and associated files are installed and run from a remote workstation, and the user views the remote workstation's screen on their local workstation.

For the local site users, this method is on a similar level to the Network (shared) installation above. The users' workstations require only an appropriate shortcut (and the necessary Citrix Access Group (CAG) infrastructure).

Note: For issues with CAG, please contact your local or national help desk.

For the Citrix Farm administrator, this method involves installations on the host in a similar manner to either the Gold Path or the Direct Access methods outlined below.

- Local workstation installation:

This is the “standard” method of installation where the GUI executable (CPUser.exe) and associated files are installed on and run from the user's local workstation. This method of installation initially requires the distribution and installation of a Microsoft Software Installation (MSI) file to each user's workstation, typically accomplished via SCCM. This is outside the scope of the Sustainment team. A National package (CP User v1.0.62.0) has been prepared and made available to Regional COR Client Technologies leadership.

- Manual install:

This method is used for users who wish to have a production instance and a non-production instance running on the same machine. An example would be users who are testing this software or needs to have access to a pre-production (mirror) VistA instance.

1. Locate the MD_1_62.ZIP and unzip the file.
2. Copy the contents of the zip archive to a test directory, for example, C:\CPUser. You may need to create this new directory.

Note: You need to have a user with Administrator rights to this PC to complete these steps.

3. Create a Shortcut and name it “Test CP User v1_62”. This is to give the user another visual cue that this is not the normal CP User icon.

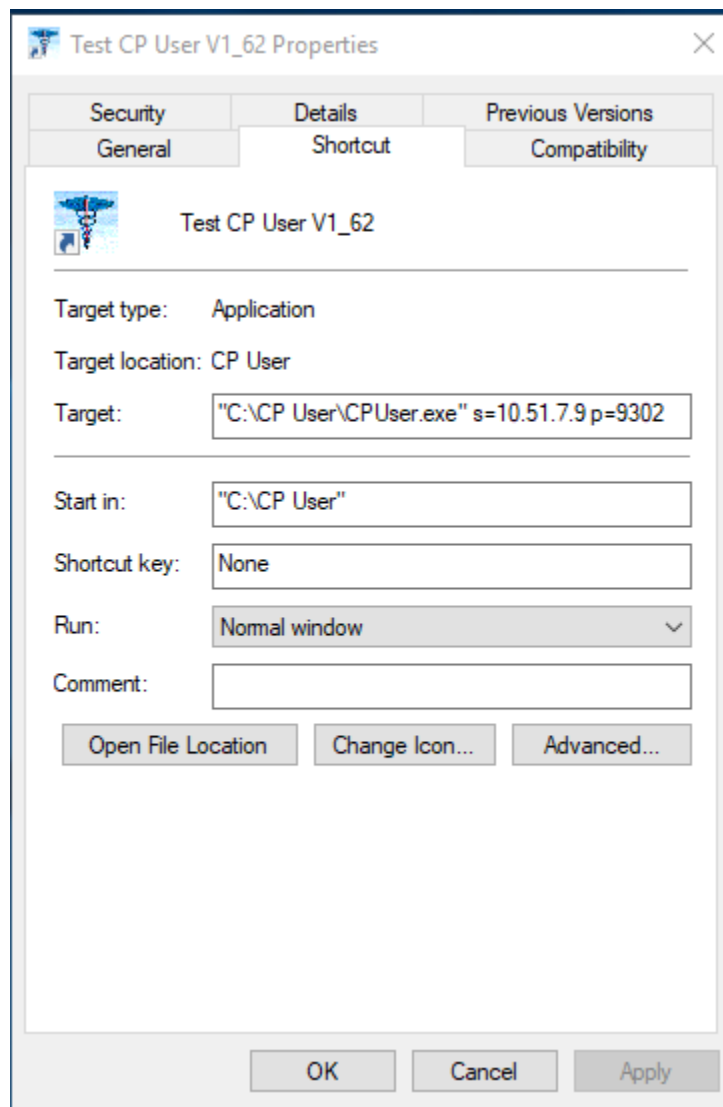
Figure 1: Shortcut Icon for Test CP User v1_62



4. Determine the DNS server name or IP address for the appropriate VistA server.
5. Determine the Broker RPC port for the VistA account.

6. Enter IP (or DNS name) and RPC port in the Target field of the Shortcut properties (or use ServerList.exe).

Figure 2: Test CP User v1_62 Properties



Note: The server and port number shown above are for example only.

4.9. Installation Verification Procedure

[VISTA] Verify the checksum of routine MDPOST62 is equal to the checksum listed on the patch description.

[GUI] Launch the CP User GUI and verify the splash screen now announces that you are running version v1.0.62.0.

4.10. System Configuration

N/A

4.11. Database Tuning

N/A

5. Back-Out Procedure

5.1.Back-Out Strategy

[Vista] In section 4.8.1 (step 3) the individual installing the patch used option [Backup a Transport Global] to create a PackMan message that will revert the CP User components to their pre-v1.0.62.0 state. This includes everything transported in the MD*1.0*62 (CP User v1.0.62.0) build. If for any reason that PackMan Message cannot be located, Contact HPS Sustainment: Clinical (see section 5.6)

[GUI] To revert to the CP User GUI, the v1.0.49.0 GUI would have to be redistributed

5.2.Back-Out Considerations

5.2.1.Load Testing

No load testing was performed on CP User v1.0.62.0. This was a maintenance release to correct defects discovered in CP User v1.0.49.0 There was no additional functionality included.

5.2.2.User Acceptance Testing

User acceptance testing was conducted by the test sites listed in section 3.2.2.

The sites followed the provided test plan and executed the test cases according to the plan for the first build of MD*1.0*62. The sites either passed or failed any item based on testing. The tests were performed by users at each site who are familiar with using the application. The test cases were then delivered to the HPS Clinical Sustainment team. Any items that failed were re-developed and then sent back to the sites for the next build and further acceptance testing following the same process. Once in production, the same final test cases from the last build were tested in production. No subsequent builds were created as the test cases passed and sites signed off on concurrence for release of the product.

5.3.Back-Out Criteria

Back-out would only be considered if there was a catastrophic failure that causes loss of function for the application and/or a significant patient safety issue.

5.4.Back-Out Risks

Backing out CP User v1.0.62.0. would result in the re-instatement of the issues addressed in CP User v1.0.49.0.

In addition, there is a risk that the process, which would be performed only in an emergent situation, would significantly impact patient care due to the interruption.

5.5.Authority for Back-Out

The Area Manager has the final authority to require the rollback and accept the associated risks

5.6.Back-Out Procedure

These steps assume that the only reason to consider a back-out for CP User v1.0.62.0. is in the event of a catastrophic failure.

Contact the HPS Clinical Sustainment implementation team to notify them there has been a catastrophic failure with CP User v1.0.62.0.. Use the following contacts:

Figure 3: HPS Clinical Sustainment Contacts

Name & Title	Email	Telephone Number
Trish Wild Project Manager	Patrica.Wild@va.gov	717-798-2474
Chris Bell Technical Leader	Christopher.Bell2@va.gov	941-592-5820

7. If the decision is made to proceed with back-out and rollback, the HPS Sustainment Clinical team be available to assist sites that have misplaced their backup PackMan message, as well as give you the instructions on downloading the executable.
8. [VistA]
 - a. Open the Backup MailMan Message
 - b. At the “Enter message action (in IN basket): Ignore//” prompt Enter “X” for [Xtract PackMan]
 - c. At the “Select PackMan function:” prompt select [INSTALL/CHECK MESSAGE]. The old routine is now restored
 - d. [GUI] Coordinate with the appropriate IT support, local and regional, to schedule the time to install MD*1.0*49 and to push out / install the previous GUI executable.
9. Once MD*1.0*49 and CP User v1.0.49.0. have been installed, verify operations before making available to all staff.

5.7.Back-out Verification Procedure

1. Ensure the CP User v1.0.49.0 executable launches properly.
2. Perform site-specific testing appropriate to the areas where the catastrophic failure was identified.

6. Rollback Procedure

6.1.Rollback Considerations

No load testing was performed on CP User v1.0.62.0. This was a maintenance release to correct defects discovered in CP User v1.0.49.0 There was no additional functionality included.

6.2.Rollback Criteria

Refer to Section 5.3 for criteria that would require a rollback of this patch.

6.3.Rollback Risks

Backing out CP User v1.0.62.0. would result in the re-instatement of the issues addressed in CP User v1.0.49.0.

In addition, there is a risk that the process, which would be performed only in an emergent situation, would significantly impact patient care due to the interruption.

6.4.Authority for Rollback

The Facility CIO has the final authority to require the rollback and accept the associated risks

6.5.Rollback Procedure

Included in the Vista patch, there is a post install routine, MDPOST62. This routine contains a rollback section called ROLLBACK. If for some reason it is deemed necessary to back out this patch, simply executing that section of the routine, D ROLLBACK^MDPOST62. Will re-set the version information needed for the previous release of CP User which is MD*1*49.

6.6.Rollback Verification Procedure

Ensure the CP User v1.0.49.0 executable launches properly.